

Translation

PATENT COOPERATION TREATY

PCT/JP2003/009838



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY  
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference CP22JU03SG	FOR FURTHER ACTION	See Form PCT/IPEA/416
International application No. PCT/JP2003/009838	International filing date (day/month/year) 01 August 2003 (01.08.2003)	Priority date (day/month/year) 24 December 2002 (24.12.2002)
International Patent Classification (IPC) or national classification and IPC C10L 1/18, 1/02		
Applicant SANGI CO., LTD.		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of <u>3</u> sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising: a. <input type="checkbox"/> (sent to the applicant and to the International Bureau) a total of _____ sheets, as follows: <input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). <input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. b. <input type="checkbox"/> (sent to the International Bureau only) a total of _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).
4. This report contains indications relating to the following items: <input checked="" type="checkbox"/> Box No. I Basis of the report <input type="checkbox"/> Box No. II Priority <input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability <input type="checkbox"/> Box No. IV Lack of unity of invention <input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement <input type="checkbox"/> Box No. VI Certain documents cited <input type="checkbox"/> Box No. VII Certain defects in the international application <input type="checkbox"/> Box No. VIII Certain observations on the international application

Date of submission of the demand 07 June 2004 (07.06.2004)	Date of completion of this report 12 November 2004 (12.11.2004)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2003/009838

## Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This report is based on translations from the original language into the following language \_\_\_\_\_, which is language of a translation furnished for the purpose of:
- ☐ international search (under Rules 12.3 and 23.1(b))
- ☐ publication of the international application (under Rule 12.4)
- ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

- ☒ The international application as originally filed/furnished
- ☐ the description:
- pages \_\_\_\_\_, as originally filed/furnished
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☐ the claims:
- pages \_\_\_\_\_, as originally filed/furnished
- pages\* \_\_\_\_\_, as amended (together with any statement) under Article 19
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☐ the drawings:
- pages \_\_\_\_\_, as originally filed/furnished
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP03/09838

**Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

## 1. Statement

Novelty (N)	Claims	4	YES
	Claims	1-3	NO
Inventive step (IS)	Claims		YES
	Claims	1-4	NO
Industrial applicability (IA)	Claims	1-4	YES
	Claims		NO

## 2. Citations and explanations (Rule 70.7)

Document 1: JP, 9-227880, A (Kunio Nishimura), 2 September, 1997 (02.09.97), the claims, examples

Document 2: EP, 1167493, A (Minoru Nakahama), 2 January, 2002 (02.01.02), the claims, examples

Document 3: JP, 2000-26871, A (Masaru Yamaoka), 25 January, 2000 (25.01.00), the claims, examples

Document 4: JP, 8-283751, A (Takamasa Iriya), 29 October, 1996 (29.10.96), the claims, examples

Document 5: "The Effects of Isopropanol Addition on Gasoline-alcohol Motor Fuel Blends," (F. Karaosmanoglu, et al.), J. Inst. Energy, 1988, Vol. 61, No. 448, pages 125-128

Document 6: "Use of 95%-Ethanol in Mixtures with Gasoline," (A. Schmidt), Energy Biomass, 1981, pages 928-933

Document 7: JP, 8-311463, A (Cosmo Research Institute), 26 November, 1996 (26.11.96), the claims, paragraph [0015]

Document 8: JP, 2002-356683, A (Idemitsu Kosan Co., Ltd.), 13 December, 2002 (13.12.02), the claims, paragraph [0009]

(1) The subject matter of claim 2 does not appear to be novel or to involve an inventive step in view of documents 1-4 cited in the ISR.

Document 1 (paragraph [0014]), document 2 (paragraph [0020]), document 3 ([Table 1] in paragraph [0009]) and document 4 (paragraph [0023]) respectively describe a liquid fuel for internal combustion engines, containing an alcohol with 2 to 6 carbon atoms, hydrocarbon components and methanol.

(2) The subject matters of claims 1 and 3 do not appear to be novel or to involve an inventive step in view of documents 1-6 cited in the ISR.

Documents 1-4 respectively describe a liquid fuel for internal combustion engines, containing an alcohol with 2 to 6 carbon atoms, hydrocarbon components and methanol. The water content is not stated in documents 1-4, but as described in documents 5 and 6, hydrocarbon components and alcohols usually contain slight amounts of water.

(3) The subject matter of claim 4 does not appear to involve an inventive step in view of documents 1-8 cited in the ISR.

A person skilled in the art could have, as required, used ether components (documents 7 and 8) together in a liquid fuel for internal combustion engines.